

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/016460

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ A61K31/421, 31/517, 9/06, 9/08, A61P27/02//C07D263/32, 417/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A61K31/00-31/80, 9/00-9/08, A61P1/00-43/00, C07D263/00-263/32, 401/00-421/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JSTPLUS (JOIS), JMEDPLUS (JOIS), WPI (DIALOG)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-515874 A (Dr. Reddy's Research Foundation), 28 May, 2002 (28.05.02), Claims; examples; page 55, line 27 to page 56, line 11 & WO 97/41097 A2 & AU 9737198 A & ZA 9705866 A & NO 9806055 A & US 5885997 A & CZ 9803850 A3 & EP 958296 A1 & US 5985884 A & BR 9711098 A & US 6114526 A & CN 1275982 A & KR 2000065247 A & MX 9810782 A1 & US 2001/0031759 A1 & US 6372750 B2 & US 2002/0123502 A1 & IL 127296 A & US 6573268 B1 & US 6780992 B2	1-3, 7-9

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
03 March, 2005 (03.03.05)Date of mailing of the international search report
22 March, 2005 (22.03.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Hisashi HOSOYA, "Tonyobyosei Kakumakusho", The Journal of the Eye, 1996, 13(6), pages 845 to 851, full text	1-3, 7-9
Y	Kazuko KAMEYAMA, "Tonyobyō Gappeisho to shitenō Ganbyōhen", Clinics & drug therapy, 2002, 21(11), pages 1089 to 1092, particularly, page 1090, right column to page 1091, left column	1-3, 7-9
Y	Yasuichiro CHIKAMA, "Hen'ensei Kakumaku Johi Kesson", Ganka, 2001, 43, pages 1625 to 1631, full text	1-3, 7-9
Y	JP 11-130675 A (Santen Pharmaceutical Co., Ltd.), 18 May, 1999 (18.05.99), Full text & EP 909558 A2 & CA 2246224 A & CN 1215591 A & KR 99023971 A	1-3, 7-9
Y	JP 3-72227 B2 (Sanwa Kagaku Kenkyusho Co., Ltd.), 18 November, 1991 (18.11.91), Full text & JP 63-57588 A & US 5447946 A	1-3, 7-9
Y	JP 8-231549 A (Sanwa Kagaku Kenkyusho Co., Ltd.), 10 September, 1996 (10.09.96), Full text & EP 719556 A2	1-3, 7-9

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 4-6

because they relate to subject matter not required to be searched by this Authority, namely:

The inventions as set forth in claims 4 to 6 pertain to methods for treatment of the human body by therapy. (Article 17(2)(a)(i) of the PCT, Rule 39.1(iv) of the Regulations under the PCT)

2. ☐ Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Of the inventions disclosed in claims 1-3 and 7-9, those in which the active ingredient is 5-[4-[[3-methyl-4-oxo-3,4-dihydro-2-quinazolinyl]methoxy]-phenylmethyl]thiazolidine-2,4-dione or a salt thereof.

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet (2)

With respect to claims 1-3 and 7-9

The subject matters of claims 1-3 and 7-9 are considered to involve the following two inventions a) and b).

a) A therapeutic agent for keratoconjunctiva disorders which contains 5-[4-[[3-methyl-4-oxo-3,4-dihydro-2-quinazolinyl]methoxy]phenyl-methyl]thiazolidine-2,4-dione or a salt thereof as an active ingredient.

b) A therapeutic agent for keratoconjunctiva disorders which contains N-[(4-methoxyphenoxy)carbonyl]-N-[[4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]methyl]glycine or a salt thereof as an active ingredient.

These two therapeutic agents for keratoconjunctiva disorders each contains a known compound as the active ingredient (see, for example, JP 2002-515874 A and JP 2003-509503 A), and these compounds differ considerably in chemical structure. There are many known documents concerning treatments for the disease called keratoconjunctiva disorders (for example, Hisashi HOSOYA, *Atarashii Ganka*, 1996, 13(6), pp.845-851 and Kazuko KAMEYAMA, *Rinsho to Yakubutsu Chiryo*, 2002, 21(11), pp.1089-1092). In view of this, either of the active ingredients alone or the disease alone to which the active ingredients are applied is not considered to be a special technical feature. It is considered that judgment should be made as to whether a combination of both is a special technical feature.

Therefore, claims 1-3 and 7-9 involve two inventions, a) and b), which are not so linked as to form a single general inventive concept.